

In the Drawings:

Please note that the drawings have not been amended, as amendments were made to the text as described above.

In the Claims:

Please amend claims 14, 44, 46, 48, 50 and 52 as follows:

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14. (Amended) A preparation comprising a protein having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, said protein including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof, the preparation being free of non-heparanase polypeptides encoded by human nucleic acid sequences.

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16. (Amended) An isolated protein having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, said protein including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof, said isolated protein being substantially devoid of glycosilation.

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18. (Amended) A preparation comprising a protein having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, said protein including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof, the preparation being substantially free of a CXC chemokine or PAII.

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20. (Amended) An isolated protein having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, said protein including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof, said isolated protein being characterized by insect cell derived sugar post-translational modifying groups.

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22. (Amended) An isolated protein having heparanase catalytic (endo- β -D-glucuronidase) activity or being cleavable so as to acquire said heparanase catalytic activity, said protein including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof, said isolated protein being characterized by non-human cell derived sugar post-translational modifying groups.

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24. (Amended) A preparation comprising a protein of about 50 or about 65 kDa as determined by a denaturing polyacrylamide gel electrophoresis, said protein having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, respectively, said protein including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof, the preparation being free of non-heparanase polypeptides encoded by human nucleic acid sequences.

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26. (Amended) An isolated protein of about 50 or about 65 kDa as determined by a denaturing polyacrylamide gel electrophoresis, said protein having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, respectively, said protein including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof, said isolated protein being substantially devoid of glycosilation.

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28. (Amended) A preparation comprising a protein of about 50 or about 65 kDa as determined by a denaturing polyacrylamide gel electrophoresis, said protein having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, respectively, said protein including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof, the preparation being substantially free of a CXC chemokine or PAI1.

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30. (Amended) An isolated protein of about 50 or about 65 kDa as determined by a denaturing polyacrylamide gel electrophoresis, said protein having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to

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acquire said heparanase catalytic activity, respectively, said protein including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof, said isolated protein being characterized by insect cell derived sugar post-translational modifying groups.

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32. (Amended) An isolated protein of about 50 or about 65 kDa as determined by a denaturing polyacrylamide gel electrophoresis, said protein having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, respectively, said protein including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof, said isolated protein being characterized by non-human cell derived sugar post-translational modifying groups.

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40. (Amended) An isolated protein at least 70 % homologous to SEQ ID NO:10, 14 or 44, the protein having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, said isolated protein being characterized by insect cell derived sugar post-translational modifying groups.

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44. (Amended) A preparation comprising a protein having a pair of glutamic acid residues participating in its active site and having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, said protein including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof, the preparation being free of non-heparanase polypeptides encoded by human nucleic acid sequences.

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46. (Amended) An isolated protein having a pair of glutamic acid residues participating in its active site and having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, said protein

including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof, said isolated protein being substantially devoid of glycosilation.

B6 48. (Amended) A preparation comprising a protein having a pair of glutamic acid residues participating in its active site and having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, said protein including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof, the preparation being substantially free of a CXC chemokine or PAI1.

B7 50. (Amended) An isolated protein having a pair of glutamic acid residues participating in its active site and heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, said protein including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof, said isolated protein being characterized by insect cell derived sugar post-translational modifying groups.

B8 52. (Amended) An isolated protein having a pair of glutamic acid residues participating in its active site and having heparanase catalytic (endo- β -D-glucuronidase) activity or being cleavable so as to acquire said heparanase catalytic activity, said protein including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof, said isolated protein being characterized by non-human cell derived sugar post-translational modifying groups.

B20 54. (Amended) A preparation comprising a protein having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, said protein being capable of eliciting an anti-heparanase antibody, said protein including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof, the preparation being free of non-heparanase polypeptides encoded by human nucleic acid sequences.

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56. (Amended) An isolated protein having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, said protein being capable of eliciting an anti-heparanase antibody, said protein including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof, said isolated protein being substantially devoid of glycosilation.

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58. (Amended) A preparation comprising a protein having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, said protein being capable of eliciting an anti-heparanase antibody, said protein including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof, the preparation being substantially free of a CXC chemokine or PAI1.

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60. (Amended) An isolated protein having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, said protein being capable of eliciting an anti-heparanase antibody, said protein including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof, said isolated protein being characterized by insect cell derived sugar post-translational modifying groups.

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62. (Amended) An isolated protein having heparanase catalytic (endo- β -D-glucuronidase) activity or being cleavable so as to acquire said heparanase catalytic activity, said protein being capable of eliciting an anti-heparanase antibody, said protein including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof, said isolated protein being characterized by non-human cell derived sugar post-translational modifying groups.

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64. (Amended) An isolated protein having heparanase catalytic (endo- β -D-glucuronidase) activity or being cleavable so as to acquire said heparanase catalytic activity, said protein including a polypeptide at least 60% homologous to at least one of

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SEQ ID NOs: 10, 14, or 44 or portions thereof, said protein being capable of eliciting an anti-heparanase antibody.

Please add new claims 66-70:

66. (New) A preparation comprising a protein having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, said protein including a polypeptide at least 60% homologous to at least one of SEQ ID NOs: 10, 14, or 44 or portions thereof.

67. (New) The preparation of claim 66, wherein said polypeptide is characterized by being recombinant.

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68. (New) A preparation comprising a recombinant protein having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, wherein said recombinant protein includes a polypeptide encoded by a polynucleotide capable of inducing heparanase activity after transfection into a cell, said cell being characterized by lacking such heparanase activity before said transfection, the preparation being free of non-heparanase polypeptides encoded by human nucleic acid sequences, the polypeptide having a pair of glutamic acid residues participating in its active site.

69. (New) A preparation comprising a recombinant protein having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, wherein said recombinant protein includes a polypeptide capable of being encoded by a polynucleotide capable of hybridizing to at least a portion of at least one of SEQ ID NOs: 9, 13, 42, or 43.

70. (New) A preparation comprising a recombinant protein having heparanase (endo- β -D-glucuronidase) catalytic activity or being cleavable so as to